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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/655,340	•	09/04/2003	Grigori Lishanski	423.008 6105	
23598	7590	08/30/2006		EXAMINER	
		KSON NEWHOLM	GILLAN, RYAN P		
250 E. WISC SUITE 1030		AVENUE	ART UNIT	PAPER NUMBER	
MILWAUK		53202	3746		

DATE MAILED: 08/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Apı	plication No.	Applicant(s)				
Office Action Summary			/655,340	LISHANSKI ET AL.				
			aminer	Art Unit				
		Rya	an P. Gillan	3746				
Period for	- The MAILING DATE of this communi	cation appears	on the cover sheet with the c	orrespondence address				
A SHO WHIC - Extens after S - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE Masions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply exply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AILING DATE of 37 CFR 1.136(a). unication. tutory period will appwill, by statute, cause	OF THIS COMMUNICATION In no event, however, may a reply be tim ly and will expire SIX (6) MONTHS from the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status								
2a)☐ 3)☐	Responsive to communication(s) filed on <u>05 September 2003</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1-20</u> is/are pending in the a day of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-20</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restric	e withdrawn fro						
Application	on Papers							
10)🛛 🗆	The specification is objected to by the The drawing(s) filed on <u>05 September</u> Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	r 2003 is/are: ction to the drawithe correction is	ing(s) be held in abeyance. See required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment	(s)			•				
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date <u>7/2/04</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informat P 6) Other:					

Application/Control Number: 10/655,340

Art Unit: 3746

DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 6 recites the limitation "the gasket" in lines 2 of claim 6. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination it is assumed that the applicant was referring instead to the diaphragm mentioned previously in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-5, 7-10 and 16 rejected under 35 U.S.C. 102(a) as being anticipated by Lishanski et al. (6,604,920). Lishanski et al. teach a vibratory pump comprising: a housing (1), a vibration generating mechanism (2) disposed within the housing; a pumping chamber (clearly seen in figure 1 containing all the pumping elements) disposed within the housing adjacent the vibration generating mechanism (clearly seen in figure 1), the pumping chamber including at least one fluid inlet (15) and a fluid outlet (13) each extending through the housing; and a rod (6) operably connected to the vibration generating mechanism at one end and positioned within the pumping chamber at the opposite end (clearly seen in

figure 1), the opposite end selectively engageable with the fluid outlet during operation of the vibration generating mechanism (col. 3 lines 18-30); the fluid outlet includes an outlet chamber (12) having an inner end positioned within the housing and including a central opening (clearly seen in figure 1), and an outer end (8a) extending outwardly from the housing; wherein the central opening has a conical surface (clearly seen integral with chamber 12); wherein the rod includes a plate (9)opposite the vibration generating mechanism that is matable and engageable with the central opening (clearly seen in figure 1); wherein the plate is formed of a resilient material (col. 2 lines 36-41, inherently, any material has at least some degree of resiliency); wherein the plate is positioned within the outlet end (plunger 10 is an integral with the plate, and thus part of the plate, and is clearly seen in figure 1); wherein the plate includes a central portion (within the limits of structure 10) having a diameter less than the diameter of the central opening and an outer portion (outside of the limits of structure 10) having a diameter greater than the diameter of the central opening; wherein the outer portion includes a sealing member (16) that is sealingly engageable with the inner end of the outlet chamber; wherein the vibration generating mechanism includes a switch extending through the housing (col. 3 line 64 - col. 4 line 2, although a switch extending through the housing is not specifically called out it is inherently disclosed in that the power source and motor are completely enclosed in the housing as seen in figure 1 and therefore the switching off of the power would require a switch extending through the housing).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lishanski et al. (6,604,920) in view of Lishanski et al. (6,428,289). Lishanski (6,604,920) teaches all of the claim limitations as applied to claim 2, but fails to teach the inner end including a resilient diaphragm positioned over the central opening, the diaphragm (or gasket) including a central aperture or opening.
- 5. Lishanski (6,428,289) teaches an inner end including a resilient diaphragm (250) positioned over the central opening (clearly seen in figure 1), the diaphragm (or gasket) including a central aperture or opening (260). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lishanski (6,604,920) to incorporate the diaphragm assembly as disclosed in Lishanski (6,428,289) as a means of structurally simplifying the active pumping mechanism and creating more efficient flow from the inlet to the outlet, thus creating a more cost effective pump.
- 6. Claims 11-15, 17 and 20 rejected under 35 U.S.C. 103(a) as being unpatentable over Lishanski et al. (6,604,920) in view Pilolla et al. (4,938,384). Lishanski et al. teach all of the claim limitations as applied to claim 1, but fail to teach at least one inlet tube that extends outwardly from the housing; wherein the outlet tube is formed from a generally resilient material; wherein the one fluid inlet

includes at least one fluid opening in the pump chamber aligned with the at least one inlet tube; wherein the housing includes an engagement member disposed on the housing that is engageable with a fluid-holding container; and wherein the engagement member is threaded.

- 7. Pilolla et al. teach at least one inlet tube (64) that extends outwardly from the housing (66); wherein the inlet tube is formed from a generally resilient material (any material is inherently resilient to at least some degree); wherein the one fluid inlet includes at least one fluid opening (clearly seen connected to tube 64) in the pump chamber aligned with the at least one inlet tube (clearly seen in figure 1); wherein the housing includes an engagement member (58) disposed on the housing that is engageable with a fluid-holding container (12); and wherein the engagement member is threaded (clearly seen in figure 1). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the inlet of Lishanski to accommodate the fluid-holding container as taught by Pilolla et al. as a means of supplying fluid to the pump in an easily regulated and measured amount (col. 2 lines 1-15).
- 8. Claims 18 and 19 rejected under 35 U.S.C. 103(a) as being unpatentable over Lishanski et al. (6,604,920) and Pilolla et al. (4,938,384) in view of Lishanski (6,428,289). The combination of Lishanski et al. (6,604,920) and Pilolla et al. teach all of the claim limitations as applied to claim 17, but fail to teach the inner end including a resilient diaphragm positioned over the central opening, the diaphragm (or gasket) including a central aperture or opening.

9. Lishanski (6,428,289) teaches an inner end including a resilient diaphragm (250) positioned over the central opening (clearly seen in figure 1), the diaphragm (or gasket) including a central aperture or opening (260). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lishanski (6,604,920) to incorporate the diaphragm assembly as disclosed in Lishanski (6,428,289) as a means of structurally simplifying the active pumping mechanism and creating more efficient flow from the inlet to the outlet, thus creating a more cost effective pump.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan P. Gillan whose telephone number is 571-272-8381. The examiner can normally be reached on 8:30 am - 5:00 pm; Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Thorpe can be reached on 571-272-4444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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PRIMARY EXAMINER